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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of the claims in the application.

In the claims:

- 1. (Currently Amended) A method for <u>detecting</u> in vitro <u>detection of malignant potential of human gastric carcinoma progressing from human gastric dysplasia, comprising the steps of:</u>
- (a) extraction extracting of genomic DNA from eells a sample comprising human gastric dysplasia cells in a sample of tissue or body liquid;
- (b) detection detecting the of methylation state of p16 CpG islands in the genomic DNA-by amplification; and
- (c) determination evaluating the risk of gastric carcinoma of malignant potential of the tested tissue or body liquid based upon the presence of methylated p16 CpG_islands.
- (Currently Amended) The [[A]] method for in vitro detection of malignat potential of dysplasia
 of claim 1 wherein the methylation state of p16 CpG islands is analyzed by methylation-specific
 PCR (MSP).
- 3. (Currently Amended) The [[A]] method for in vitro detection of malignant potential of dysplasia of claim 2 wherein methylated-sequence specific primers are complementary to any part of the artificial sequence SEQ ID NO: 1 or SEQ ID NO: 3, or wherein unmethylated-sequence specific primers are complementary to any part of the artificial sequence SEQ ID NO: 2 or SEQ ID NO: 4.
- (Withdrawn) An artificial nucleotide having a sequence corresponding to the antisense sequence of methylated p16 CpG islands of SEQ ID NO: 1.
- 5. (Withdrawn) An artificial nucleotide having a sequence corresponding to the antisense sequence

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of unmethylated p16 CpG islands of SEQ ID NO: 2.

- 6. (Withdrawn) An artificial nucleotide having a sequence corresponding to the sense sequence of methylated p16 CpG islands of SEQ ID NO: 3.
- 7. (Withdrawn) An artificial nucleotide sequence corresponding to the sense sequence of unmethylated *p16* CpG islands of SEQ ID NO: 4.